			H.K	
	Application No.	Applicant(s)		
Nation of Allawahility	10/774,014	HEMINK, GERRIT	HEMINK, GERRIT JAN	
Notice of Allowability	Examiner	Art Unit		
	Michael t. Tran	2827		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.				
1. This communication is responsive to <u>Amendment filed Dec</u>	<u>cember 30, 2005</u> .			
2. The allowed claim(s) is/are <u>1-39 and 52-77</u> .				
3.				
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	8. 🛭 Examiner's Stateme	(PTO-413), le nent/Comment		
5. 2.00 03 ,000	9.	ω	M	
		Wich	HAEL TRAN	

U.S. Patent and Trademark Office PTOL-37 (Rev. 7-05)

DETAILED ACTION

1. In response to the Communication dated December 30, 2005, claims 1-39 and 52-77 are active in this application as a result of the cancellation of claims 40-51.

Drawings

2. The drawings filed February 06, 2004 have been approved.

Allowable Subject Matter

- 3. Claims 1-39 and 52-77 are allowable over the prior art of record.
- 4. The following is an Examiner's statement of reasons for the indication of allowable subject matter: the prior art of records does not show (in addition to other elements in the claim) the following:
 - Boosting through some of the word lines electrical potential(s) of channel regions of the first string of transistors by coupling voltage levels to at least some of the transistors in the first string to reduce program disturb, wherein the electrical potential(s) of the channel regions of some of the transistors in the first string are/is boosted so that breakdown at the drain or source side of the one select transistor in the first string is reduced to such an extent that it does not result in a change of the first transistor's desired charge storage state to a different charge state.

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• Boosting through some of the word lines electrical potential(s) of channel regions of the first string of transistors by coupling voltage levels to at least some of the transistors in the first string to reduce program disturb, wherein the electrical potential(s) of the channel regions of some of the transistors in the first string are/is boosted so that such boosting does not result in a change of the first transistor's desired charge storage state to a different one of the more than two possible charge states.

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- Boosting electrical potential(s) of channel regions of the first string of transistors
 by coupling boosting voltage levels to at least some of the transistors and a
 voltage level to the first transistor in the first string to reduce program disturb,
 wherein the voltage level coupled to the first transistor is different from that/those
 coupled to other transistors in the first string when a program voltage level is
 applied to the control gates coupled to the second and third transistors.
- Coupling first boosting voltage level(s) to all of the transistors in the second string between said selected word line and the bit line connected to the second string to boost electrical potential(s) of channel regions of transistors in the second string to a value or values closer to the program voltage to reduce program disturb.
- Applying second voltage level(s) that are or is less than the first voltage level(s) to word lines controlling the two sets of adjacent transistors to turn off at least one transistor in each set, to reduce program disturb, wherein the second voltage level(s) contain(s) at least one voltage level such that an unprogrammed transistor in the first string coupled to such at least one voltage level will be

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selected word line.

turned on but a programmed transistor in the first string coupled to such at least one voltage level(s) will be turned off.

Coupling second voltage level(s) that are or is less than first voltage level(s) to at
least one charge storage transistor in the second string between the selected
word line and the source line such that a channel area of the second string on
the source side of the at least one transistor coupled to the second voltage is
electrically isolated from the transistor in the second string controlled by the

5. Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael T. Tran whose telephone number is (571) 272-1795.

7. Any inquiry of a general nature or relating to the status of this application should be directed to Group receptionist whose telephone number is (571) 272-1650.

Michael T. Tran

February 5, 2006

MICHAEL TRAN